



© Mark Skinner

- Dynamic information system meeting NRCS field office, customer, & cooperator plant information needs
- National standard for natural resource information automation



PLANTS Web Site

■ <http://plants.usda.gov>

- 7,000,000+ hits per month
 - 2.8 million/month a year ago, NOW increased 75%
- focuses on U.S. and its territories
- directly accessible to traditional & non-traditional clients, cooperators, and the public

PLANTS Includes

- Names & checklists
- Plant guides
- Images & links
- How to grow & manage plants
- Alternative crops
- Crop nutrient tool
- Culturally significant plants



Plant Profile: Access to---



- Profiles for 43,000 plants
- Images
- Distribution & Attributes
- Legal status-Noxious/T&E
- Conservation characteristics
- Plant guides & fact sheets
- Wetland indicator status
- Related web sites
- Related species
- Printer-Friendly Version

Other Species Accounts and Images

Other Species Accounts and Images

Taraxacum officinale G.H. Weber ex Wiggers

View **species account** from CalFlora, or **photographs** from CalPhotos.
View **species account** from USDA Forest Service Fire Effects Information System (FEIS).
View **species account** or **photographs** from USF Atlas of Florida Vascular Plants.
View **species account** from ARS Germplasm Resources Information Network (GRIN).
View **taxonomic account** from Integrated Taxonomic Information System (ITIS) for ITIS
Taxonomic Serial Number 36213.
View **species account** or **photographs** from Wisconsin Vascular Plants at UWM.

- “One-click” access to other key sites

Related Web Sites



- Quick access to pertinent
Related Web Sites
- Links maintained on a routine basis
- Additions integrated quickly for priority plants

General Links



- General links provide easy access to other high quality sites for key topics, such as--
 - Native plants
 - Buffers
 - Bioremediation
 - Poisonous plants
 - Fact sheets (off-site)
 - Xeriscaping

Plant Characteristics

- Compiled for 2,000 conservation plant species
- 100 characteristics
- Can be used as a filter in the **Advanced Query**
- These data support VegSpec

PLANTS Characteristics

Conservation Plant Characteristics for:

Common Name: American basswood
 Symbol: **TAMH**
 Scientific Name: *Tilia americana* L. var. *heterophylla* (Vent.) Loud.

Conservation Plant Characteristics data definitions:

View Conservation Plant Characteristics species list by common name
 View Conservation Plant Characteristics species list by scientific name

Summary			
Growth Habit	Tree	Federal US Status	
Durability	Perennial	National Wetland Indicator	
U.S. Native	Native		
Active Growth Period	Spring and Summer	Fruit/Seed Color	Brown
After Harvest Regrowth Rate	NA	Fruit/Seed Consistency	NA
Arborescent	NA	Growth Form	Single Stem
Bark	None	Growth Rate	Moderate
C.H. Ratio	High	Height at 20 Years, Maximum	80
Coarse Fibrous	NA	Height, Mature (feet)	80
Fall Consistency	NA	Leaf Width	NA
Fire Resistant	NA	Life Span	Long
Flower Color	Yellow	Low Growing Grass	NA
Flower Consistency	NA	Midrange Foliage	None
Foliage Color	Green	Reproductive Ability	Yes
Foliage Persistence Summer	Moderate	Shape and Orientation	erect
Foliage Persistence Winter	Perenn	Toxicity	None
Foliage Texture	Medium		
Growth Requirements			
Adapted to Coarse Textured Soils	NA	Residue Use	High
Adapted to Fine Textured Soils	NA	pH, Minimum	5.0000001
Adapted to Medium Textured Soils	Yes	pH, Maximum	7.1000001
Aromatic Tolerance	None	Planting Density per Acre, Minimum	300
CaCO3 Tolerance	Low	Planting Density per Acre, Maximum	300
Cost Stratification Required	Yes	Precipitation, Minimum	25
Drought Tolerance	Low	Precipitation, Maximum	85
Fertility Requirement	High	Root Depth, Minimum (inches)	40
Fire Tolerance	Low	Salinity Tolerance	None
Frost Free Plant, Minimum	100	Trade Name	Trident

Advanced Query

The screenshot shows the 'PLANTS Advanced' query interface in a Microsoft Internet Explorer browser window. The page has a green header with navigation links: Home, Topics, Gallery, Links, Tools, and a 'JUMP' button. Below the header is a search bar with the text 'PLANTS search' and a 'Go' button. A box titled 'Query the PLANTS database and display the results.' contains instructions: 'Specify your query criteria below. Later you can review your choices and choose to sort your report, and after displaying the data you can download it. Or click the second link below to download without displaying any information.' Below this is a section titled 'Contents' with links to 'Part A: PLANTS Core Data' and 'Part B: Characteristic Data'. The 'Part A: PLANTS Core Data' section is expanded, showing several query criteria with dropdown menus and checkboxes for 'Display in Report'. The criteria include: 'US Plants in Workbooks' (dropdown: All Plants), 'State Distribution' (dropdown: All States), 'County Distribution (Select a maximum of 10)' (dropdown: All Counties), 'Taxonomy' (dropdown: All Categories), 'Species' (dropdown: All Species), and 'Scientific Name' (dropdown: All Names). Each criterion has a 'Display in Report' checkbox. At the bottom, there are instructions for wild cards: 'Wild cards are permitted: * for multiple characters and _ for single characters.' and 'Displayed by default'.

- Complete access to the data
- Search 43,000 plants on basic attributes
- Search 2,000 plants on 100 plant attributes
- Filter results by any attribute(s)
- Report to screen or download data set for your local use

Plant Materials Information



- PLANTS/PM Integration
 - PM Web site
 - 500+ Fact sheets/guides
 - 900+ propagation protocols linked through **Native Plants Network**
 - Search engine on 2,000 PM publications
 - expected late 2002

Culturally Significant Plant Guides

Assisting Native American clients

Cultural Uses

Description

Adaptation

Establishment

Management

Sources

References



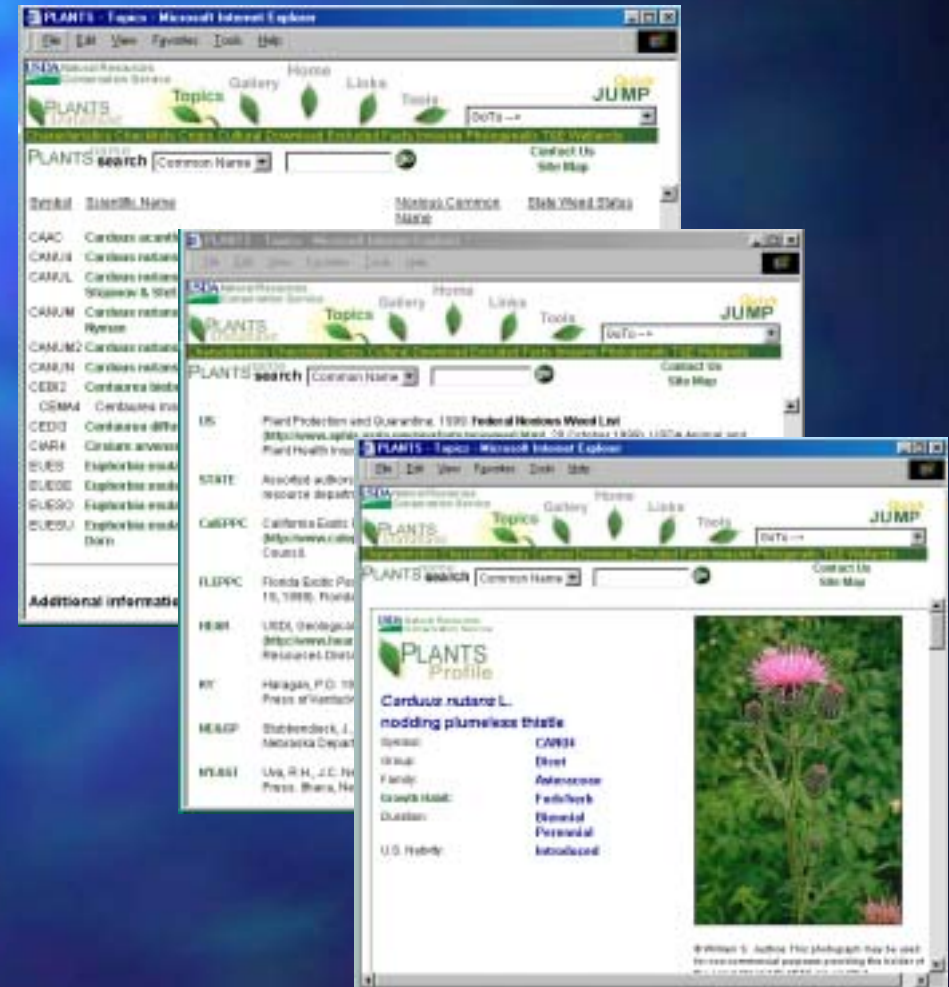
from CalPhotos



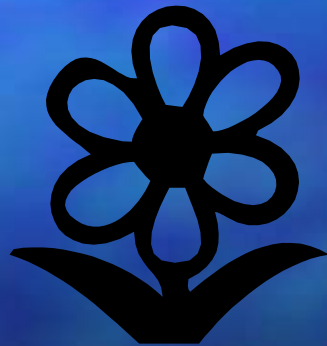
Ethnobotany Office Location:
Department of Environmental
Horticulture
University of California
Davis, California

Weeds Module

- 1400+ plants
- Federal noxious weeds
- State noxious weeds
 - linked to state legislation
- Plants known to have invasive characteristics
 - linked to 12 publications
- Plants introduced into US
- Links to **Plant Profile** for access to additional data



Alternative Crops



- Search by crop type, state, then name
- Quick access to fact sheets from across the nation
- Assisting the field with info for limited resource farmers

PLANTS: Related Applications

- VegSpec
 - Web-based tool for selecting conservation plants
- Crop Nutrient Tool
 - Augments Agricultural Waste Management Field Handbook
- Ecological Site Information System



A Global Plant Information Leader



- USDA, NRCS
National Plant Data Center
Southern University
Baton Rouge
Louisiana, USA
- <http://plants.usda.gov>